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Amendment to the Claims:

1. (Currently Amended) A method of determining the position of a patient ~~an object~~ in an image, the patient being located on an examination table in an imaging region, the method comprising:
- 5 providing a pattern of marking elements that are not visibly evident individually in the image;
- attaching the pattern of marking elements to at least one of the patient object that is being imaged and the examination table; and
- obtaining the image.
2. (Previously Presented) A method as claimed in claim 1, wherein the position of the marking elements in the image is determined by a correlation of the image with at least one filter image of the pattern of the marking elements.
3. (Previously Presented) A method as claimed in claim 2, wherein the filter image of the pattern is transformed relative to the actual pattern of the marking elements.
4. (Previously Presented) A method as claimed in claim 1, wherein the image is generated by means of radioscopy, and the marking elements exhibit a low absorption of the X-rays, the effect of which lies within the noise level of the X-ray image.
5. (Previously Presented) A method as claimed in claim 1, wherein the position of at least one further object is determined in the image, wherein a second pattern of marking elements, which do not show up individually in the image, is attached to the further object, and wherein the second pattern is different from the first
- 5 pattern.
- 6-8. (Cancelled)

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9. (Currently Amended) An X-ray system, comprising
an X-ray source generating X-rays along a ray path;
an X-ray detector, which is disposed in the ray path of the X-ray source;
at least one marking device for attachment to at least one of a patient
5 located in an imaging region between the X-ray source and the X-ray detector and an
examination table on which the patient is supported in the imaging region an object in
order to determine the position of the patient object in an X-ray image, wherein the
marking device comprises marking elements, which are not visibly evident
individually in the X-ray image; and
10 a data processing unit for calculation of the position of the marking
elements of the marking device in an image generated with the x-ray system.

10. (Currently Amended) An X-ray system ~~as claimed in claim 9,~~
~~wherein it is set up to implement a method as claimed in claim 1.~~

11. (Previously Presented) The X-ray system as claimed in claim 9,
wherein said marking elements are arranged in a pattern.

12. (Previously Presented) The X-ray system as claimed in claim 11,
wherein said pattern is a two dimensional, cyclical binary maximum length sequence.

13. (Previously Presented) The X-ray system as claimed in claim 9,
wherein said marking elements are applied to a transparent carrier.

14. (Currently Amended) A method as claimed in claim 1, wherein
the image is an X-ray image, and wherein the pattern of marking elements is remote
from an X-ray detector and an X-ray source.

15. (Previously Presented) An X-ray system as claimed in claim 9,
wherein the marking device is remote from the X-ray detector and the X-ray source.

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16. (Currently Amended) The X-ray system as claimed in ~~of~~ claim 15, further comprising another marking device remote from the X-ray detector, the X-ray source and the marking device, wherein the another marking device comprises other marking elements that are not visibly evident individually in the X-ray image, and
5 wherein the another marking device is attached to ~~[[a]] the patient adjacent to the~~ object.

17. (Currently Amended) A method as claimed in claim 1, wherein the pattern of marking elements are not visibly evident individually in the image ~~without and further including:~~
performing an image processing step to reveal ~~remove~~ the pattern from
5 the image.

18. (Currently Amended) A method as claimed in claim 1, further comprising the pattern of marking elements with a combination ~~at least one~~ of a size, a shape, and a material that renders the marking elements not visibly evident individually in the image.

19. (Currently Amended) An X-ray system as claimed in claim 9, wherein the marking elements are not visibly evident individually in the image, ~~without the data processing unit~~ performing an image processing step to reveal ~~remove~~ the pattern from the image.

20. (Currently Amended) An X-ray system as claimed in claim 9, wherein the marking elements have a combination ~~at least one~~ of a size, a shape, and a material that renders the marking elements not visibly evident individually in the X-ray image.